

**EN**

**ANNEX**

**SUMMARY OF PRODUCT CHARACTERISTICS FOR A BIOCIDAL PRODUCT**

CaO PT02

**Product type(s)**

PT02: Disinfectants and algaecides not intended for direct application to humans or animals

**Authorisation number:** EU-0029494-0000

**R4BP asset number:** EU-0029494-0000

## 1. ADMINISTRATIVE INFORMATION

### 1.1. Trade name(s) of the product

Trade name(s)	Neutralac® Calci-flo Optilight Neutralac® Q Neutralac® Q1 Neutralac® Q2 Neutralac® Q2 DB Neutralac® Q200 Neutralac® Q3 Neutralac® Q3-7 Neutralac® Q90 Neutralac® Q90 SR
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### 1.2. Authorisation holder

Name and address of the authorisation holder	Name	Lhoist
	Address	Rue Charles Dubois, 28 1342 Ottignies-Louvain-La-Neuve Belgium
Authorisation number	EU-0029494-0000	
<i>R4BP asset number</i>	EU-0029494-0000	
Date of the authorisation	19/06/2024	
Expiry date of the authorisation	30/11/2033	

### 1.3. Manufacturer(s) of the product

Name of manufacturer	Cal Industrial SL
Address of manufacturer	Pedro I 19-21 31 007 Pamplona Spain
Location of manufacturing sites	Cal Industrial SL site 1 Pedro I 19-21 31 007 Pamplona Spain

Name of manufacturer	CalGov
Address of manufacturer	Carretera Fuente, Apartado 2 41 560 Estepa Spain
Location of manufacturing sites	CalGov site 1 Carretera Fuente, Apartado 2 41 560 Estepa Spain

Name of manufacturer	Carrières et Chaux Balthazard et Cotte
Address of manufacturer	Rue du Pra Paris 38360 Sassenage France
Location of manufacturing sites	Carrières et Chaux Balthazard et Cotte site 1 Rue du Pra Paris 38 360 Sassenage France

Name of manufacturer	Carrières et fours à chaux de Dugny
Address of manufacturer	B.P.1 55 100 Dugny-sur-Meuse France
Location of manufacturing sites	Carrières et fours à chaux de Dugny site 1 B.P.1 55 100 Dugny-sur-Meuse France

Name of manufacturer	Chaux de Boran
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Address of manufacturer	Route de Boran 60 640 Précy-Sur-Oise France
Location of manufacturing sites	Chaux de Boran site 1 Route de Boran 60 640 Précy-Sur-Oise France

Name of manufacturer	Chaux de Bretagne
Address of manufacturer	- 53600 Evron France
Location of manufacturing sites	Chaux de Bretagne site 1 - 53600 Evron France

Name of manufacturer	Chaux de Provence
Address of manufacturer	Ancien Chemin de Martigues 13 160 Châteauneuf Les Martigues France
Location of manufacturing sites	Chaux de Provence site 1 Ancien Chemin de Martigues 13 160 Châteauneuf Les Martigues France

Name of manufacturer	Chaux et Dolomies du Boulonnais
Address of manufacturer	Rue Jules Guesde 62 720 Réty France
Location of manufacturing sites	Chaux et Dolomies du Boulonnais site 1 Rue Jules Guesde 62 720 Réty France

Name of manufacturer	Chaux de la Tour
Address of manufacturer	1 chemin des Chaux de la Tour 13 820 Ensues La Redonne France
Location of manufacturing sites	Chaux de la Tour site 1 1 chemin des Chaux de la Tour 13 820 Ensues La Redonne France

Name of manufacturer	Carrières et Fours à Chaux Dumont Wautier
Address of manufacturer	Rue la Mallieue, 95 B-4470 Saint-Georges-sur-Meuse Belgium
Location of manufacturing sites	Carrières et Fours à Chaux Dumont Wautier site 1 Rue la Mallieue, 95 B-4470 Saint-Georges-sur-Meuse Belgium

Name of manufacturer	Etablissement Leon Lhoist
Address of manufacturer	Usine de On-Jemelle 6900 Marche-en-Famenne Belgium
Location of manufacturing sites	Etablissement Leon Lhoist site 1 Usine de On-Jemelle 6900 Marche-en-Famenne Belgium

Name of manufacturer	Lhoist Bukowa Sp. z o.o.
Address of manufacturer	Bukowa, ul. Osiedlowa 10 29-105 Krasocin Poland
Location of manufacturing sites	Lhoist Bukowa Sp. z o.o. site 1 Bukowa, ul. Osiedlowa 10 29-105 Krasocin Poland

Name of manufacturer	Vápenka Čertovy schody a.s
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Address of manufacturer	Tmaň 200 267 21 Tmaň Czechia
Location of manufacturing sites	Vápenka Čertovy schody a.s site 1 Tmaň 200 267 21 Tmaň Czechia

Name of manufacturer	Faxe Kalk
Address of manufacturer	Hovedgaden 13 4654 Faxe Ladeplads Denmark
Location of manufacturing sites	Faxe Kalk site 1 Nordkajen 17 7100 Vejle Denmark Faxe Kalk site 2 Gl. Strandvej 14 4640 Faxe Denmark

Name of manufacturer	Lhoist France Ouest
Address of manufacturer	15 rue Henri Dagallier 38 100 Grenoble France
Location of manufacturing sites	Lhoist France Ouest site 1 15 rue Henri Dagallier 38 100 Grenoble France

Name of manufacturer	Lusical
Address of manufacturer	Valverde 2025-201 Alcanede Portugal
Location of manufacturing sites	Lusical site 1 Valverde 2025-201 Alcanede Portugal

Name of manufacturer	Société des fours à chaux de Sorcy
Address of manufacturer	Route de Sorcy, B.P.16 55 190 Void France
Location of manufacturing sites	Société des fours à chaux de Sorcy site 1 Route de Sorcy, B.P.16 55 190 Void France

Name of manufacturer	Zakłady Wapiennicze Lhoist S.A.
Address of manufacturer	ul. Wapiennicza 7 46-050 Tarnów Opolski Poland
Location of manufacturing sites	Zakłady Wapiennicze Lhoist S.A. site 1 ul. Fabryczna 22 47-316 Góraźdże Poland  Zakłady Wapiennicze Lhoist S.A. site 3 ul. Wapiennicza 7 46-050 Tarnów Opolski Poland  Zakłady Wapiennicze Lhoist S.A. site 2 ul. Bolesława Chrobrego 77B 59-550 Wojcieszów Poland

#### 1.4. Manufacturer(s) of the active substance(s)

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Cal Industrial SL
Address of manufacturer	Pedro I 19-21 31 007 Pamplona Spain
Location of manufacturing sites	Cal Industrial SL site 1 Pedro I, 19-21 31 007 Pamplona Spain

Active substance	Calcium oxide/lime/burnt lime/quicklime
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Name of manufacturer	CalGov
Address of manufacturer	Carretera Fuente, Apartado 2 41 560 Estepa Spain
Location of manufacturing sites	CalGov site 1 Carretera Fuente, Apartado 2 41 560, Estepa, Spain

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Carrières et Chaux Balthazard et Cotte
Address of manufacturer	Rue du Pra Paris 38 360 Sassenage France
Location of manufacturing sites	Carrières et Chaux Balthazard et Cotte site 1 Rue du Pra Paris 38360 Sassenage France

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Carrières et fours à chaux de Dugny
Address of manufacturer	B.P.1 55 100 Dugny-sur-Meuse France
Location of manufacturing sites	Carrières et fours à chaux de Dugny site 1 B.P.1, 55 100 Dugny-sur-Meuse France

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Chaux de Boran
Address of manufacturer	Route de Boran 60 640 Précý-Sur-Oise France
Location of manufacturing sites	Chaux de Boran site 1 Route de Boran 60640 Précý-Sur-Oise France

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Chaux de Provence
Address of manufacturer	Ancien Chemin de Martigues 13160 Châteauneuf Les Martigues France
Location of manufacturing sites	Chaux de Provence site 1 Ancien Chemin de Martigues 13160 Châteauneuf Les Martigues France

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Chaux et Dolomies du Boulonnais
Address of manufacturer	Rue Jules Guesde, 62 720 Réty France
Location of manufacturing sites	Chaux et Dolomies du Boulonnais site 1 Rue Jules Guesde, 62 720 Réty France

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Chaux de la Tour
Address of manufacturer	1 chemin des Chaux de la Tour 13 820 Ensues La Redonne France
Location of manufacturing sites	Chaux de la Tour site 1 1 chemin des Chaux de la Tour, 13 820 Ensues La Redonne France

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Carrières et Fours à Chaux Dumont Wautier
Address of manufacturer	Rue la Mallieue, 95 B-4470 Saint-Georges-sur-Meuse Belgium
Location of manufacturing sites	Carrières et Fours à Chaux Dumont Wautier site 1 Rue la Mallieue, 95, B-4470 Saint-Georges-sur-Meuse, Belgium

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Etablissement Leon Lhoist
Address of manufacturer	Usine de On-Jemelle 6900 Marche-en-Famenne Belgium
Location of manufacturing sites	Etablissement Leon Lhoist site 1 Usine de On-Jemelle 6900 Marche-en-Famenne Belgium

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Lhoist Bukowa Sp. z o.o
Address of manufacturer	Bukowa, ul. Osiedlowa 10, 29-105 Krasocin Poland
Location of manufacturing sites	Lhoist Bukowa Sp. z o.o site 1 Bukowa, ul. Osiedlowa 10, 29-105 Krasocin Poland

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Lhoist France Ouest
Address of manufacturer	15 rue Henri Dagallier, 38 100 Grenoble France
Location of manufacturing sites	Lhoist France Ouest site 1 15 rue Henri Dagallier, 38 100 Grenoble France

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Lusical
Address of manufacturer	Valverde 2025-201 Alcanede Portugal
Location of manufacturing sites	Lusical site 1 Valverde 2025-201 Alcanede Portugal

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Société des fours à chaux de Sorcy
Address of manufacturer	Route de Sorcy B.P.16 55 190 Void France
Location of manufacturing sites	Société des fours à chaux de Sorcy site 1 Route de Sorcy B.P.16 55 190 Void France

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Zakłady Wapiennicze Lhoist S.A.
Address of manufacturer	ul. Wapiennicza 7 46-050 Tarnów Opolski, Poland
Location of manufacturing sites	Zakłady Wapiennicze Lhoist S.A. site 1 ul. Fabryczna 22 47-316 Góraźdże Poland

	<p>Zakłady Wapiennicze Lhoist S.A. site 2 ul. Wapiennicza 7 46-050 Tarnów Opolski, Poland</p> <p>Zakłady Wapiennicze Lhoist S.A. site 3 ul. Bolesława Chrobrego 77B 59-550 Wojcieszów Poland</p>
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Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Faxe Kalk
Address of manufacturer	Hovedgaden 13 4654 Faxe Ladeplads Denmark
Location of manufacturing sites	Faxe Kalk site 1 Nordkajen 17 7100 Vejle Denmark Faxe Kalk site 2 Gl. Strandvej 14 4640 Faxe Denmark

Active substance	Calcium oxide/lime/burnt lime/quicklime
Name of manufacturer	Vápenka Čertovy schody a.s
Address of manufacturer	Tmaň 200 267 21 Tmaň Czechia
Location of manufacturing sites	Vápenka Čertovy schody a.s site 1 Tmaň 200 267 21 Tmaň Czechia

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## 2. PRODUCT COMPOSITION AND FORMULATION

### 2.1. Qualitative and quantitative information on the composition of the product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
Calcium oxide/ lime/burnt lime/ quicklime		active substance	1305-78-8	215-138-9	100

### 2.2. Type(s) of formulation

DP Dustable powder



### 3. HAZARD AND PRECAUTIONARY STATEMENTS

Hazard statements	<p>H315: Causes skin irritation.</p> <p>H318: Causes serious eye damage.</p> <p>H335: May cause respiratory irritation.</p> <p>EUH014: Reacts violently with water.</p>
Precautionary statements	<p>P261: Avoid breathing dust.</p> <p>P264: Wash hands thoroughly after handling.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P280: Wear protective gloves, protective clothing, eye protection and face protection.</p> <p>P302+P352: IF ON SKIN: Wash with plenty of water.</p> <p>P321: Specific treatment (see instructions on this label).</p> <p>P332+P313: If skin irritation occurs: Get medical advice.</p> <p>P362+P364: Take off contaminated clothing and wash it before reuse.</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310: Immediately call a POISON CENTRE or doctor/physician.</p> <p>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P312: Call a poison center/doctor if you feel unwell.</p> <p>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</p> <p>P501: Dispose of container to accordance with local regulations.</p> <p>P405: Store locked up.</p>

## 4. AUTHORISED USE(S)

### 4.1. Use description

**Table 1. Disinfection of sewage sludge**

Product type	PT02: Disinfectants and algaecides not intended for direct application to humans or animals
Where relevant, an exact description of the authorised use	-
Target organism(s) (including development stage)	Scientific name: Bacteria Common name: Bacteria Development stage: -  Scientific name: Endoparasites Common name: Helminth eggs Development stage: -
Field(s) of use	indoor use
Application method(s)	Method: automatic direct application  Detailed description: The product is dosed into the sewage sludge and mixed by means of a blender. The dry product is mixed with the sewage sludge in an open mixer. The product should be loaded by fully automated processes.
Application rate(s) and frequency	Application rate: 0,15 - 1,5 kg product / kg dry weight of substance; typical dry solid content - 12-25 % in sewage sludge  Dilution (%): - Ready to use (RTU) product  Number and timing of application:  <b>The application rate must be sufficient to maintain a pH of &gt; 12 and a temperature &gt;50°C during the contact time.</b>  Contact time: 24 hours
Category(ies) of users	professional
Pack sizes and packaging material	Bulk powder  Big bags or sacks (with Polypropylene (PP) or Polyethylene (PE) inner layer): 500 - 1200 kg

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#### **4.1.1. Use-specific instructions**

- The dose must be sufficient to maintain a pH of > 12 and a temperature >50°C during the 24 hour contact time.
  
- Application rate : 0,15 – 1,5 kg product / kg dry weight of substrate; typical dry solids content - 12-25% in sewage sludge.
  
- The ratio may vary between application and treatment plant designs. The user must ensure that the treatment is effective through preliminary laboratory test that guarantee efficacy according to the legislation applicable to each case.

#### **4.1.2. Use-specific risk mitigation measures**

#### **4.1.3. Use-specific risk mitigation measures**

- The loading of the product into the treatment unit and the application must be done fully automatically.
- The loading into the treatment unit and the disposal of empty big bags or sacks (500 - 1200 kg) must be performed using a telehandler (including a closed cabin).
- During the loading of the product and the disposal of empty bags or sacks, wear:
  - a respiratory protective equipment (RPE) at least assigned protection factor (APF) 40 (airtight face piece covering eyes, nose, mouth and chin according to European Standard (EN) 149 with a P3 filter or equivalent);
  - chemical resistant gloves EN 374 or equivalent (glove material to be specified by the authorisation holder within the product information);
  - protective coverall in accordance with EN 13982 or equivalent (coverall material to be specified by the authorisation holder within the product information).
- During the treatment of sewage sludge, the wearing of air-fed or canister RPE specific for ammonia gas in accordance with EN 14387 or equivalent, is recommended in absence of collective management measures to estimate and prevent an exposure greater than the EU occupational exposure limit value (OEL) of 14 mg/m<sup>3</sup> for that gas.
- During the manual handling of treated sewage sludge wear protective gloves in accordance with EN 374 or equivalent and protection coverall in accordance with EN 14126 or equivalent protecting against the intrinsic properties of the sewage sludge.
- The provisions on personal protective equipment are without prejudice to the application of Council Directive 98/24/EC and other Union legislation in the area of health and safety at work.
- See section 6 for the full titles of the EN standards and legislation.
  
- The cleaning of the treatment unit must be avoided or performed with an automated process with no exposure of the professional.

#### **4.1.4. Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment**

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#### **4.1.5. Where specific to the use, the instructions for safe disposal of the product and its packaging**

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**4.1.6. Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage**

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## **5. GENERAL DIRECTIONS FOR USE<sup>1</sup>**

### **5.1. Instructions for use**

- Comply with the instructions for use.
- Respect the conditions of use of the product.
- Refer to hygiene plan in place in order to ensure that necessary efficacy level is achieved.
- For outdoor uses, do not apply in the case of rain or wind

### **5.2. Risk mitigation measures**

- Do not let bystanders (including co-workers and children) and pets enter the treatment area during the entire treatment duration (including the loading, the application of the product, the disposal of empty bags or sacks, the required contact time and the subsequent removal of the product and its residues from the ground).
- Use only in a well-ventilated area.

### **5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment**

- IF INHALED: Move to fresh air and keep at rest in a position comfortable for breathing. If symptoms: Call 112/ambulance for medical assistance. If no symptoms: Call a POISON CENTRE or a doctor.
- IF SWALLOWED: Immediately rinse mouth. Give something to drink, if exposed person is able to swallow. Do NOT induce vomiting. Call 112/ambulance for medical assistance.
- IF ON SKIN: Immediately wash skin with plenty of water. Thereafter take off all contaminated clothing and wash it before reuse. Continue to wash the skin with water for 15 minutes. Call a POISON CENTER or a doctor.
- IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Call 112/ambulance for medical assistance. Information to Healthcare personnel/doctor: The eyes should also be rinsed repeatedly on the way to the doctor if eye exposure to alkaline chemicals (pH > 11), amines and acids like acetic acid or propionic acid.

### **5.4. Instructions for safe disposal of the product and its packaging**

- Do not discharge unused product on the ground, into water courses, into pipes (e.g. sink, toilets) or down the drains.
- Dispose of unused product, its packaging and all other waste, in accordance with local regulations.

### **5.5. Conditions of storage and shelf-life of the product under normal conditions of storage**

- Do not store at a temperature above 30°C.
- Protect from humidity.
- Shelf-life: 15 months.

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<sup>1</sup>Instructions for use, risk mitigation measures and other directions for use under this section are valid for any authorised uses.

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## 6. OTHER INFORMATION

Full titles of EN standards and legislation referred to in sections 4.1.2 - 4.4.2:

EN 149 - Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking;

EN 374 - EN ISO 374-1: 2018: Protective gloves against dangerous chemicals and micro-organisms. Part 1: terminology and performance requirements for chemical risks;

EN 13982 - Protective clothing for use against solid particulates - Part 1: Performance requirements for chemical protective clothing providing protection to the full body against airborne solid particulates;

EN 14387 - EN 14387:2021: Respiratory protective devices - Gas filter(s) and combined filter(s) - Requirements, testing, marking;

EN 14126 - BS EN 14126: 2003 - Protective clothing. Performance requirements and tests methods for protective clothing against infective agent;

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work (fourteenth individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) (OJ L 131, 5.5.1998, p. 11.